

**22.** The communication system according to claim **11** further comprising:

a transceiver coupled to said foreign network through said second gateway providing a communications interface for communications to and from the foreign network.

**23.** A method of transmitting communications regarding tracking, location and status of field assets, comprising the steps of:

providing a first computer server on a home network, said first computer server coupled to a first gateway, said first computer server having processors;

supporting communications to and from the home network using said first gateway server;

providing a second computer server on a foreign network, said second computer server being coupled to a controller unit and a second gateway server, said second gateway server being used to support communication outside the foreign network;

coupling one or more antennas to said controller unit, said one or more antennas being capable of receiving radio transmitted signals from radio tags;

receiving radio transmitted signals from radio tags at said one or more antennas, each of said radio tags being associated with a field asset, said radio transmitted signals being communicated to said controller unit;

producing tracking, location and status information signals at the controller unit using said radio transmitted signals received from the antennas;

communicating said tracking, location and status information signals from said controller unit to the first computer server on the home network,

receiving and processing tracking, location and status information signals relating to field assets using said processors at said first computer server, and,

storing and maintaining information relating to said field assets.

**24.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, wherein said controller unit possesses functional capabilities that include a data collection engine that controls and supports scanning operations and collection of data by and through the controller unit, a data communication engine that controls and supports communication and data transmission operations by and through the controller unit; an radio reader and multiplexer module that receives and manages the communications with multiple radio signals using a multiplexed antenna configuration, and a geolocation and tracking engine that controls and supports geolocation, tracking, and status of the controller unit, radio tags, and field assets associated with radio tags.

**25.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, wherein said home network has a home agent.

**26.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, wherein said controller unit possesses functional capabilities that include a smartpower engine that manages power consumption of the controller unit, identifies low battery power status, and transitions the controller unit to sleep mode to avoid battery drain; a vehicle bus engine manages interactions between the controller unit and a vehicle; a controller device management engine that sup-

ports and manages operational support components associated with the controller unit; and, an operations engine that supports and manages component service engines and modules in the controller unit.

**27.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, wherein said controller unit has an interface engine that supports two way communications between the controller unit and external devices, said two way communications being capable of remotely controlling and monitoring operations of a remotely located asset or location.

**28.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, further comprising the step of:

communicating between the home and foreign network over the Internet.

**29.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, further comprising the step of:

communicating between the home and foreign network over a radio communication systems.

**30.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, further comprising the step of:

communicating between the home and foreign network over a computer network.

**31.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, wherein said controller unit is coupled to a computer pad located on the foreign network, said computer pad controlling the controller unit and other equipment coupled to the foreign network.

**32.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, wherein said foreign network is a mobile foreign network that is mobile relative to the location of the home network.

**33.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, wherein first computer server is coupled to one or more data entry terminals located on said home network for access to the first computer server or home agent on the home network.

**34.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, wherein second computer server is coupled to one or more data entry terminals located on said foreign network for access to the second computer server or controller unit.

**35.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, wherein said home network is coupled to a transceiver through said first gateway providing a communications interface for communications to and from the home network.

**36.** The method of transmitting communications regarding the tracking, location and status of field assets in claim **23**, wherein said foreign network is coupled to a transceiver through said second gateway providing a communications interface for communications to and from the foreign network.